

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
00398/097002SERIAL NO.
08/914,332INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)APPLICANT
Diane V. Bianchi et al.FILING DATE
July 14, 1997

GROUP

(37 CFR 1.98(b))

JAN 20 1998

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
						YES NO
AL	WD 95/03431	07/19/94	PCT			
AM						
AN						
AO						
AP						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

AD	
AR	
AS	

EXAMINER

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	AD						
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	AE	Bianchi, Diane W. et al., Fetal cells in maternal blood: Determination of purity and yield by quantitative polymerase chain reaction, Am J Obstet Gynecol 171:922-926, 1994.					
	AF	Cazier, A. et al., Comparison of the effects of a preliminary hepatic washing and of saponin on the intracellular penetration of peroxidase-labeled anti-rat albumin antibodies in hepatocytes, Histochemistry 87:251-256, 1987.					
	AG	DeMaria, Mary Ann et al., Improved Fetal Nucleated Erythrocyte Sorting Purity Using Intracellular Antifetal Hemoglobin and Hoechst 33342, Cytometry 25:37-45, 1996.					
	AH	Firestone, Lawrence et al., Comparison of Autofocus Methods for Automated Microscopy, Cytometry 12:195-206, 1991.					
	AI	Franek, Karl J. et al., Reliable Method for the Simultaneous Detection of Cytoplasmic and Surface CD3a Expression by Murine Lymphoid Cells, Cytometry 17:224-236, 1994.					
	AJ	Geifman-Holtzman, O. et al., Detection of fetal HLA-DQA sequences in maternal blood: a gender-independent technique of fetal cell identification, Prenat Diagn 15:261-8, 1995.					
	AK	Geifman-Holtzman, O. et al., Fetal RHD genotyping in fetal cells flow sorted from maternal blood, Am J Obstet Gynecol 174:818-22, 1996.					
	AL	Mann, Graham J. et al., Immunofluorescent Quantification of Ribonucleotide Reductase M1 Subunit and Correlation With DNA Content by Flow Cytometry, Cytometry 8:509-517, 1987.					
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	BA						
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	BB						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	BC	Sekizawa, A., MD, et al., Prenatal diagnosis of Duchenne muscular dystrophy using a single fetal nucleated erythrocyte in maternal blood, Neurology 46:1350-1353, 1996.					
	BD	Simpson, Joe Leigh et al., Isolating Fetal Cells From Maternal Blood - Advances in Prenatal Diagnosis Through Molecular Technology, JAMA, 270:2357-2361, 1993.					
	BE	Takabayashi, Haruo et al., Development of Non-invasive Fetal DNA Diagnosis from Maternal Blood, Prenatal Diagnosis 15:74-77, 1995.					
	BF	Zheng et al., Flow Sorting of Fetal Erythroblasts Using Intracytoplasmic Anti-Fetal Haemoglobin: Preliminary Observations on Maternal Samples, Prenatal Diagnosis 15:897-905, 1995.					
	BG						
	BH						
	BI						
	BJ						
	BK						
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AA	4 9 1 0 1 3 1	3/90	Mellman et al.			
AB	5 1 8 0 8 1 4	1/93	Hanna, Jr. et al.			
AC	5 2 8 8 4 7 7	2/94	Bacus			
AD	5 3 8 7 5 2 0	2/95	Lo Presti et al.			
AE	5 4 1 1 8 6 1	5/95	Seed et al.			
AF	5 4 2 2 2 7 7	6/95	Connelly et al.			
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AO	Berger et al., Simultaneous Detection of β -Galactosidase Activity and Surface Antigen Expression in Viable Haematopoietic Cells, Cytometry 17:216-223, 1994.
AR	Bianchi et al., Detection of fetal cells with 47, XY, + 21 karyotype in maternal peripheral blood, Hum. Genet. 90:368-370, 1992.
AS	Bianchi, Clinical Trials and Experience: Boston, Annals of the New York Academy of Sciences 731:92-102, 1994.

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BA	Bianchi et al., Erythroid-Specific Antibodies Enhance Detection of Fetal Nucleated Erythrocytes in Maternal Blood, Prenatal Diagnosis 13:293-300, 1993.						
BB	Bianchi et al., Isolation of fetal DNA from nucleated erythrocytes in maternal blood, Proc. Natl. Acad. Sci. USA 87:3279-3283, 1990.						
BC	Boyer et al., Fetal hemoglobin Restriction to a Few Erythrocytes (F Cells) in Normal Human Adults, Science 188:361, 1975.						
BD	Brunch et al., Cellular Origins of the Fetal-Haemoglobin-Containing Cells of Normal Adults, The Lancet 1163-1165, 1979.						
BE	Clevenger et al., Quantitative Analysis of a Nuclear Antigen in Interphase and Mitotic Cells, Cytometry 8:280-286, 1987.						
BF	D'Alton et al., Current Problems in Obstetrics, Gynecology and Fertility XVII:41-80, 1994.						
BG	Geifman-Holtzman et al., Prenatal Genetic Diagnosis by Isolation and Analysis of Fetal Cells Circulating in Maternal Blood, Seminars in Perinatology 18:366-375, 1994.						
BH	Jacobberger et al., Analysis of Intracellular Antigens by Flow Cytometry, Cytometry 7:356-364, 1986.						
BI	Kumar et al., Cell Separation: A Review, Pathology 16:53-62, 1984.						
BJ	Papayannopoulou et al., Erythroid Progenitors Circulating in the Blood of Adult Individuals Produce Fetal Hemoglobin in Culture, Science 199:1349-1350, 1978.						
BK	Parks et al., Flow Cytometry and Fluorescence-Activated Cell Sorting, Fundamental Immunology, Second Ed., Chapter 29, 781-802, 1989.						
BL	Pembrey et al., Maternal Synthesis of Haemoglobin F in Pregnancy, The Lancet, June 16, 1350-1354, 1973.						
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CA	Pipe et al., Flow Cytometric Detection of the RIX Subunit of Type I C-AMP-Dependent Protein Kinase in Human Cells, Cytometry 15:73-79 1994.
CB	Pollice et al., Sequential Paraformaldehyde and Methanol Fixation for Simultaneous Flow Cytometric Analysis of DNA, Cell Surface Proteins, and Intracellular Proteins, Cytometry 13:432-444, 1992.
CC	Popat et al., Pattern of Maternal F-Cell Production During Pregnancy, The Lancet, August 20, 377-379, 1977.
CD	Price et al., Prenatal diagnosis with fetal cells isolated from maternal blood by multiparameter flow cytometry, Am. J. Obstet. Gynecol. 165:1731-1737, 1991.
CE	Ren et al., Topology of Prostaglandin H Synthase-1 in the Endoplasmic Reticulum Membrane, Archives of Biochem. and Biophys. 323 (1):205-214, 1995.
CF	Ruff-Roberts et al., FISH on Flow-Sorted Cells, Am. J. of Human Genetics, 57(4):A287. No. 1671.
CG	Schimenti et al., Fixation of Mammalian Cells for Flow Cytometric Evaluation of DNA Content and Nuclear Immunofluorescence, Cytometry, 13:48-59, 1992.
CH	Schmid et al., A Gentle Fixation and Permeabilization Method for Combined Cell Surface and Intracellular Staining with improved Precision in DNA Quantification, Cytometry 12:279-285 1981.
CI	Wachtel et al., Fetal cells in the maternal circulation: isolation by multiparameter flow cytometry and confirmation by polymerase chain reaction, Human Reproduction 6:1466-1469, 1991.
CJ	Yheng et al., Flow sorting of Fetal Erythroblasts using Intracytoplasmic Anti-Fetal Haemoglobin: Preliminary Observations on Maternal Samples, Prenatal Diagnosis 15:897-905, 1995.
CK	Zheng et al., Prenatal diagnosis from maternal blood: simultaneous immunophenotyping and FISH of fetal nucleated erythrocytes isolated by negative magnetic cell sorting, J. Med. Genet. 30:1051-1056, 1993.
CL	PCT/US96/01806 PCT search report mailed April 11, 1996.

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